

## **COLD TOOL STEEL SUITABLE FOR SURFACE TREATMENT, DIE AND TOOL FOR THE SAME**

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**Applicant:** SANYO SPECIAL STEEL CO LTD

**Classification:**

**- international:** C21D9/00; C22C38/00; C22C38/22; C22C38/30;  
C21D9/00; C22C38/00; C22C38/22; C22C38/30; (IPC1-7): C22C38/00; C21D9/00; C22C38/22; C22C38/30

**- European:**

**Application number:** JP19960222036 19960823

**Priority number(s):** JP19960222036 19960823; JP19960073716 19960328

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### **Abstract of JP9316601**

**PROBLEM TO BE SOLVED:** To produce a cold tool steel, die and tool easily treatable in heat treatment and working and suitable for surface hardening treatment with  $\geq 400$  deg.C treating temp. at low cost. **SOLUTION:** This cold tool steel suitable for the surface treatment is the one having a compsn. contg., by weight, 0.70 to 1.20% C,  $\leq 2.0\%$  Si,  $\leq 1.5\%$  Mn, 5.0 to 11.0% Cr, one or two kinds of Mo and W by  $> 3.0$  to 5.0% by Mo equivalent ( $1/2W + Mo$ ), and the balance Fe with inevitable impurities, and in which high hardness of 63 to 66HR can be obtd. by high temp. tempering at  $\geq 500$  deg.C. In addition to the above components, one or  $\geq$  two kinds among 0.5 to 4.0% Co, 0.01 to 0.30% S and  $\leq 60$ ppm N are furthermore added.

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